

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032723\
 Data File : VN077212.D
 Acq On : 27 Mar 2023 19:52
 Operator : JC\MD
 Sample : PB151668ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB151668ZHE#03

Quant Time: Mar 28 07:43:22 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N032523W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 27 02:47:06 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

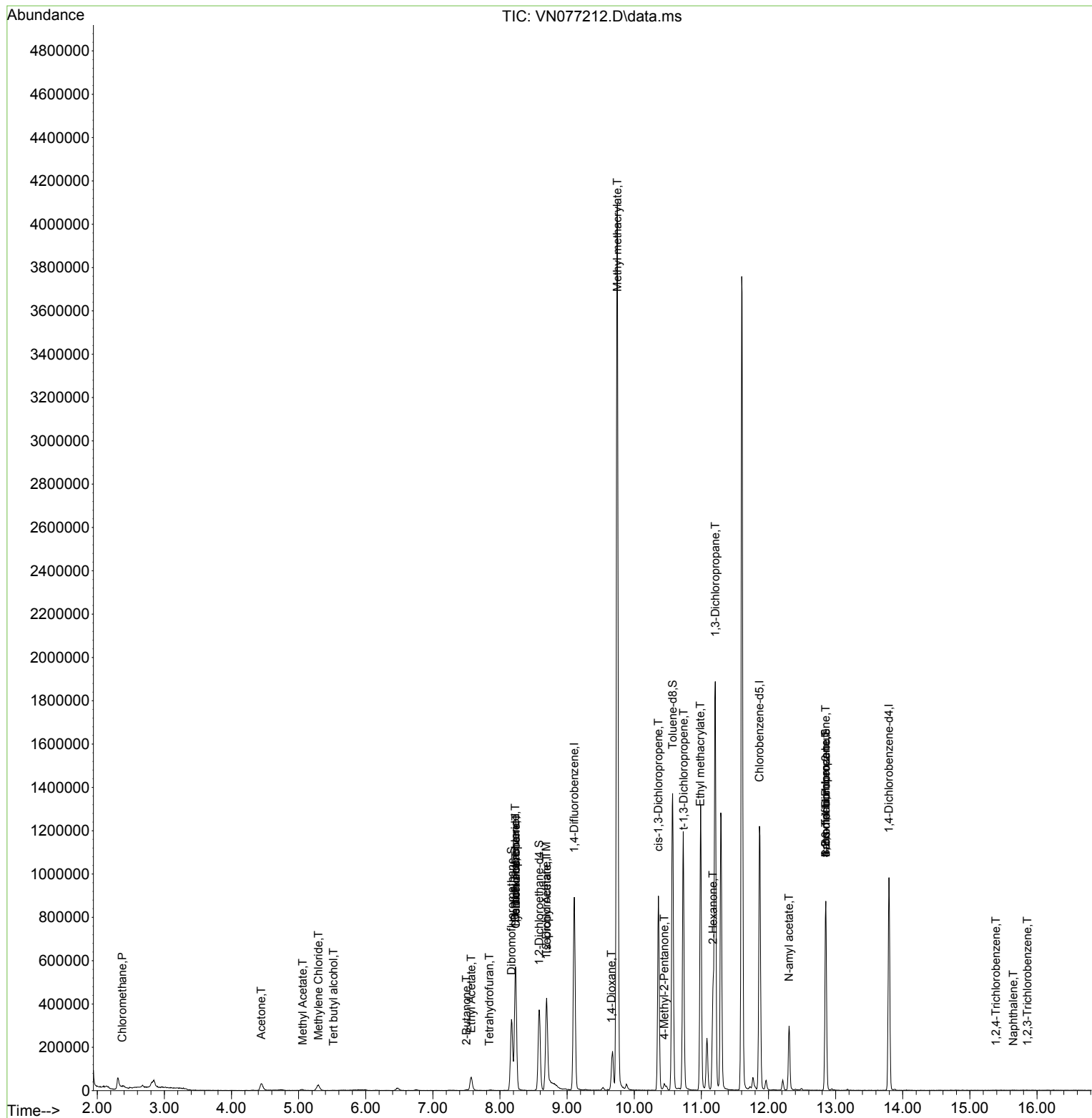
Internal Standards						
1) Pentafluorobenzene	8.230	168	402592	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	723265	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	674873	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	249628	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	309266	49.131	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.260%		
35) Dibromofluoromethane	8.172	113	229144	46.691	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.380%		
50) Toluene-d8	10.572	98	924978	50.300	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.600%		
62) 4-Bromofluorobenzene	12.854	95	278342	46.119	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	92.240%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.372	50	1540	0.261	ug/l #	40
11) Tert butyl alcohol	5.519	59	469	0.547	ug/l #	72
16) Acetone	4.442	43	62510	26.708	ug/l	96
18) Methyl Acetate	5.060	43	9273	0.990	ug/l #	77
20) Methylene Chloride	5.295	84	18310	3.513	ug/l #	75
25) 2-Butanone	7.501	43	5065	1.384	ug/l	92
29) Tetrahydrofuran	7.842	42	788	0.325	ug/l #	49
31) Cyclohexane	8.236	56	11355	1.299	ug/l #	47
36) 1,1-Dichloropropene	8.236	75	36882	5.400	ug/l #	48
37) Ethyl Acetate	7.572	43	98181	12.896	ug/l #	88
38) Carbon Tetrachloride	8.230	117	43924	6.342	ug/l #	15
42) 1,2-Dichloroethane	8.689	62	2518	0.319	ug/l #	71
43) Isopropyl Acetate	8.695	43	520465	42.374	ug/l #	73
48) Methyl methacrylate	9.748	41	388825	65.737	ug/l #	28
49) 1,4-Dioxane	9.660	88	79	0.783	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	31042	4.017	ug/l #	65
53) t-1,3-Dichloropropene	10.736	75	2588	0.352	ug/l #	71
54) cis-1,3-Dichloropropene	10.360	75	139912	17.409	ug/l #	69
56) Ethyl methacrylate	10.983	69	4731	0.639	ug/l #	1
57) 1,3-Dichloropropane	11.207	76	18737	2.097	ug/l #	43
59) 2-Hexanone	11.171	43	386568	69.600	ug/l #	17
71) Bromoform	12.854	173	2705	0.735	ug/l #	1
74) N-amyl acetate	12.307	43	102813	12.013	ug/l #	41
76) 1,2,3-Trichloropropane	12.854	75	155965	30.799	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	155965	88.768	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.389	180	445	4.478	ug/l #	46
95) Naphthalene	15.648	128	345	5.938	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.859	180	220	4.699	ug/l #	37

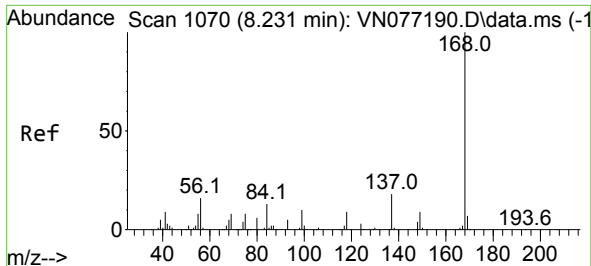
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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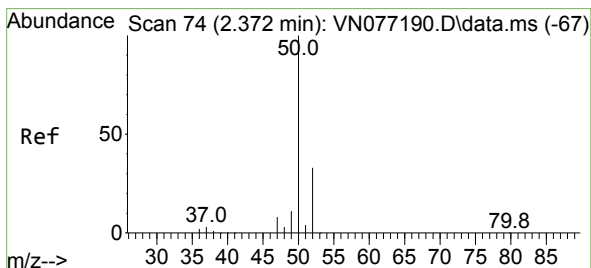
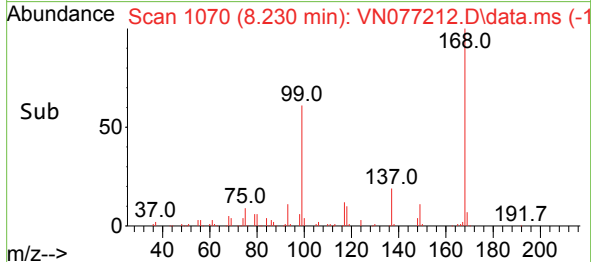
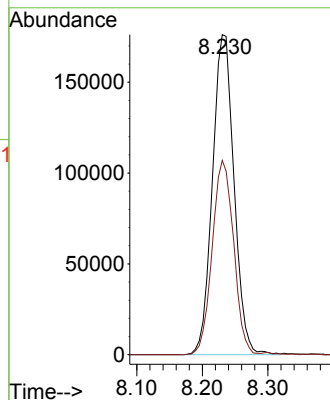
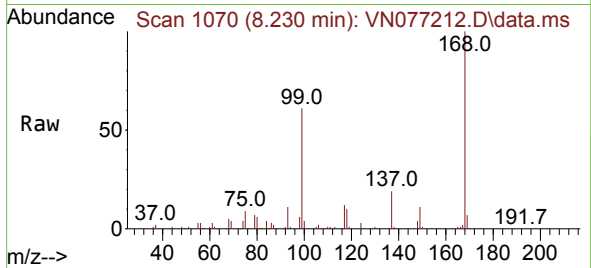




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

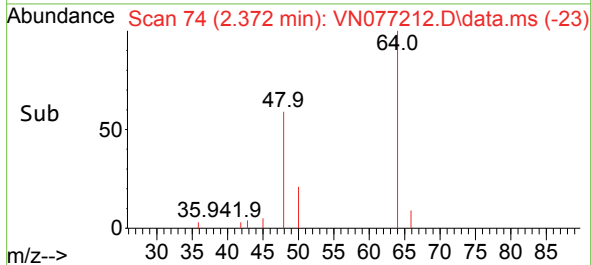
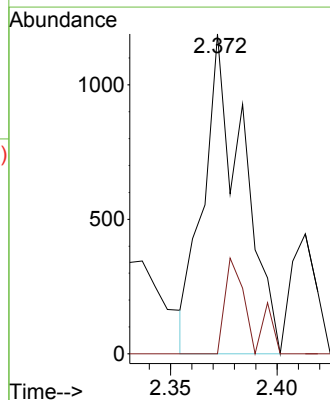
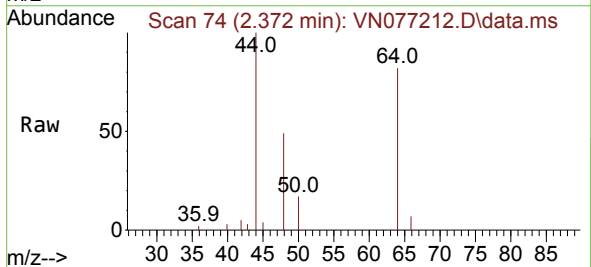
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#03

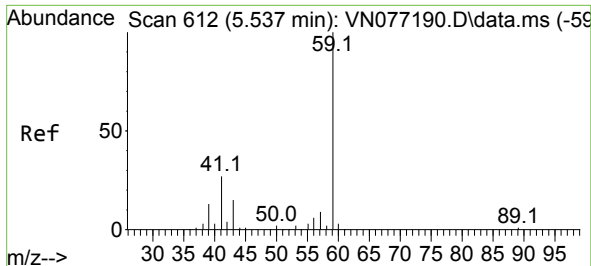
Tgt Ion:168 Resp: 402592
Ion Ratio Lower Upper
168 100
99 60.7 48.6 73.0



#3
Chloromethane
Concen: 0.261 ug/l
RT: 2.372 min Scan# 74
Delta R.T. 0.000 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

Tgt Ion: 50 Resp: 1540
Ion Ratio Lower Upper
50 100
52 0.0 27.9 41.9#

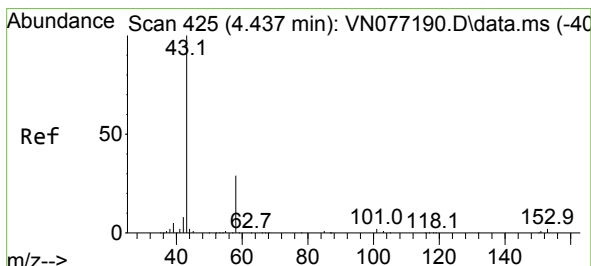
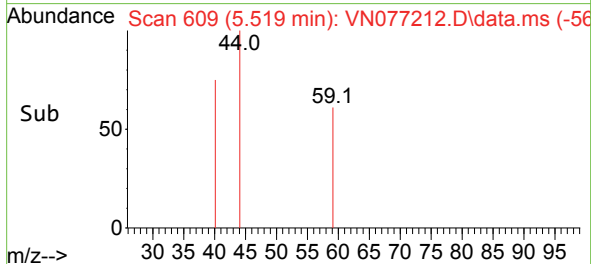
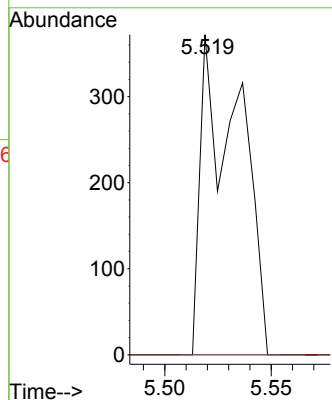
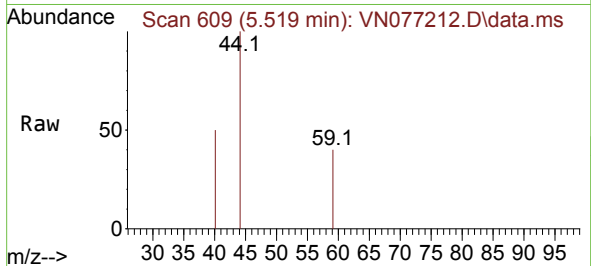




#11
Tert butyl alcohol
Concen: 0.547 ug/l
RT: 5.519 min Scan# 609
Delta R.T. -0.018 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

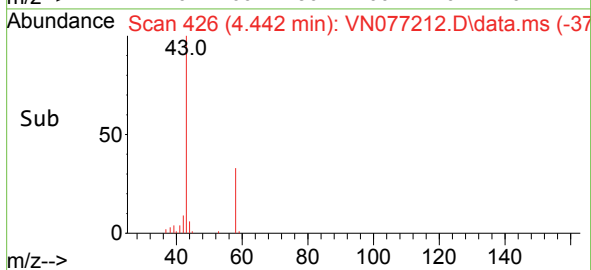
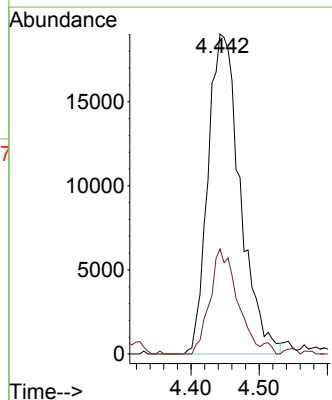
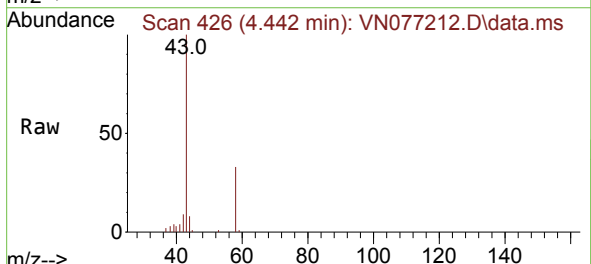
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#03

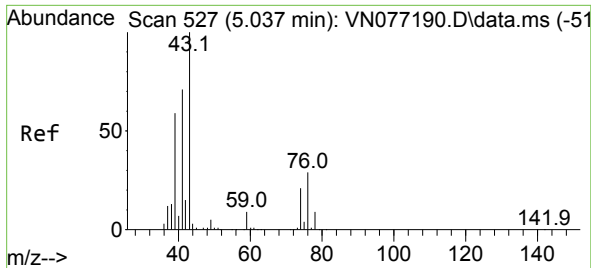
Tgt Ion: 59 Resp: 469
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#16
Acetone
Concen: 26.708 ug/l
RT: 4.442 min Scan# 426
Delta R.T. 0.005 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

Tgt Ion: 43 Resp: 62510
Ion Ratio Lower Upper
43 100
58 32.8 28.2 42.2

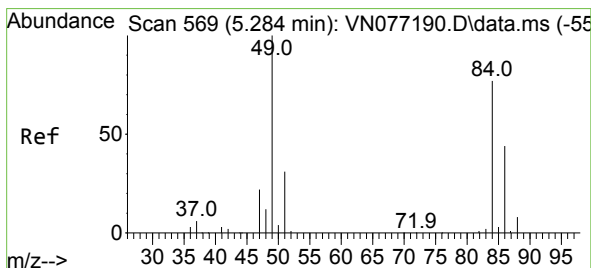
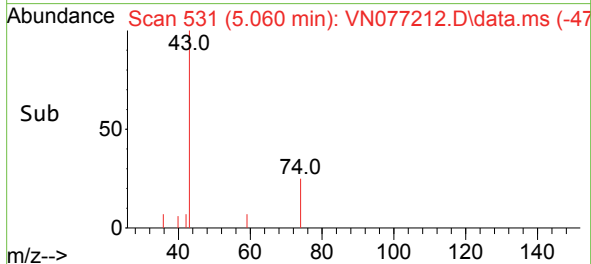
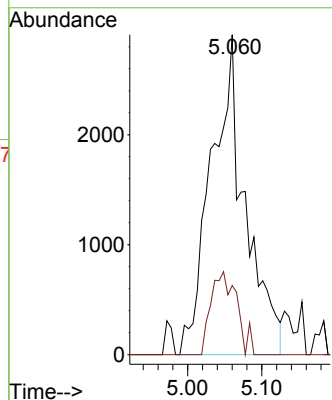
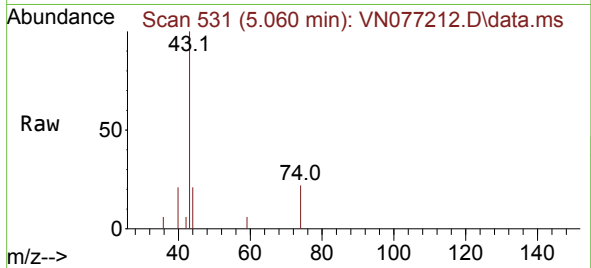




#18
Methyl Acetate
Concen: 0.990 ug/l
RT: 5.060 min Scan# 511
Delta R.T. 0.023 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

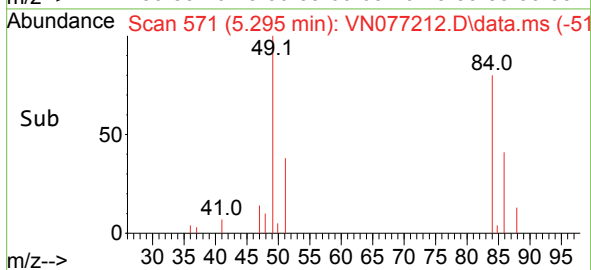
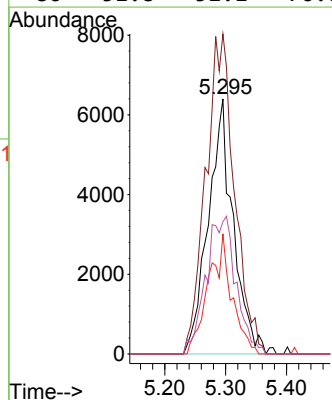
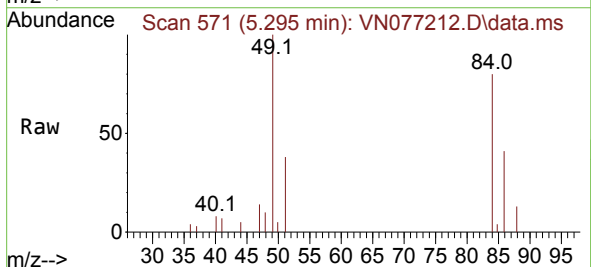
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#03

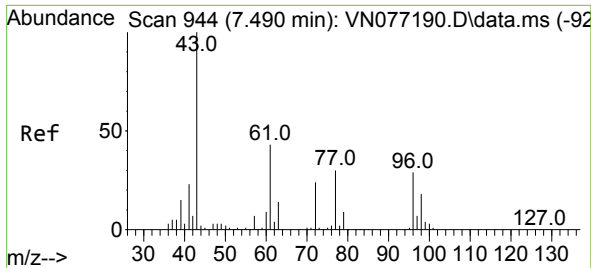
Tgt Ion: 43 Resp: 9273
Ion Ratio Lower Upper
43 100
74 19.7 25.9 38.9#



#20
Methylene Chloride
Concen: 3.513 ug/l
RT: 5.295 min Scan# 571
Delta R.T. 0.011 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

Tgt Ion: 84 Resp: 18310
Ion Ratio Lower Upper
84 100
49 125.5 76.6 114.8#
51 47.1 25.4 38.2#
86 51.8 51.1 76.7

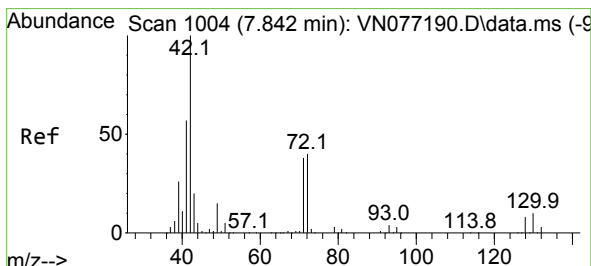
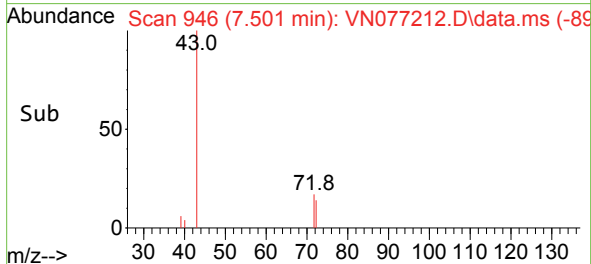
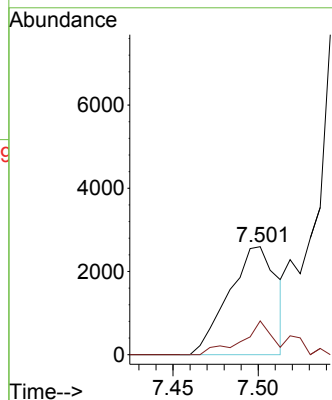
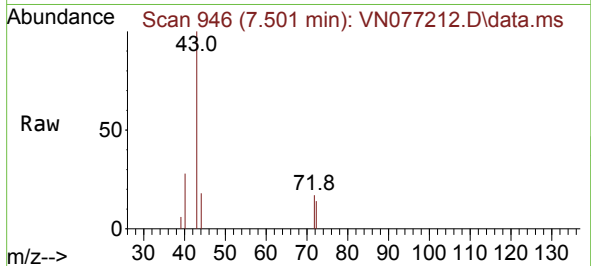




#25
2-Butanone
Concen: 1.384 ug/l
RT: 7.501 min Scan# 944
Delta R.T. 0.011 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

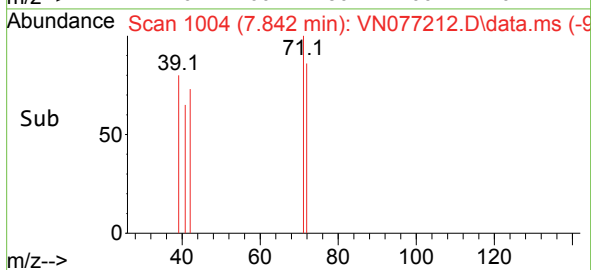
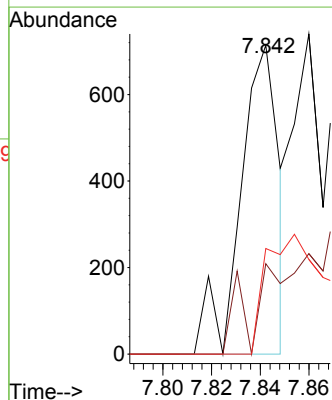
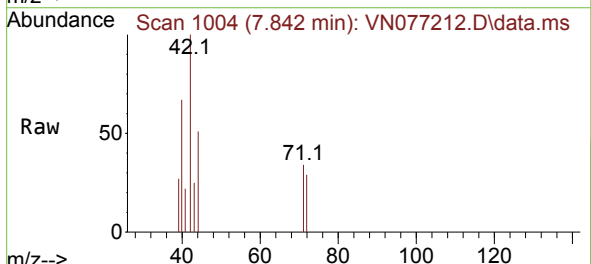
Instrument :
MSVOA_N
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PB151668ZHE#03

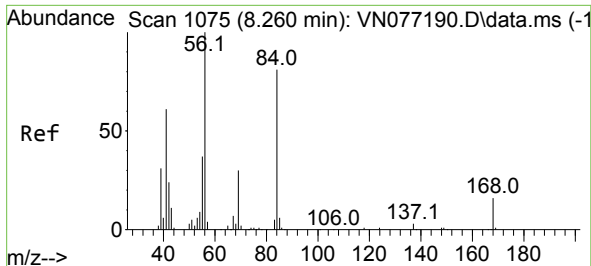
Tgt Ion: 43 Resp: 5065
Ion Ratio Lower Upper
43 100
72 31.2 28.8 43.2



#29
Tetrahydrofuran
Concen: 0.325 ug/l
RT: 7.842 min Scan# 1004
Delta R.T. 0.000 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

Tgt Ion: 42 Resp: 788
Ion Ratio Lower Upper
42 100
72 0.0 48.6 73.0#
71 70.6 45.1 67.7#

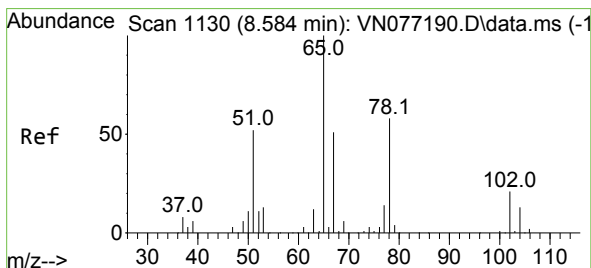
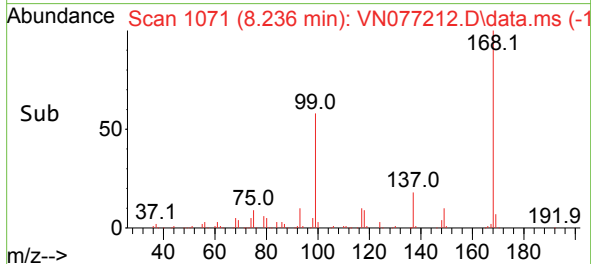
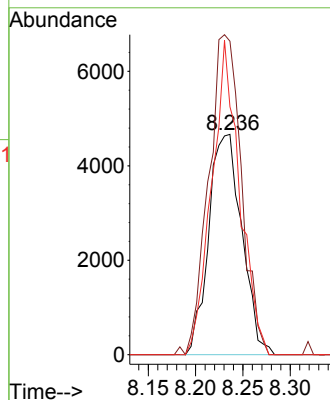
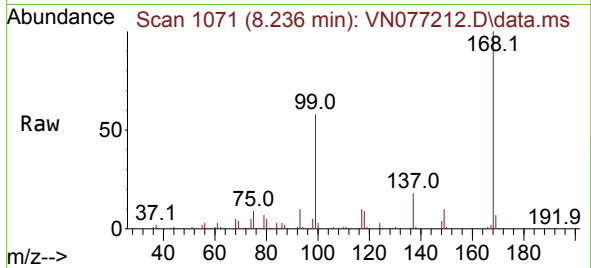




#31
Cyclohexane
Concen: 1.299 ug/l
RT: 8.236 min Scan# 11355
Delta R.T. -0.024 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

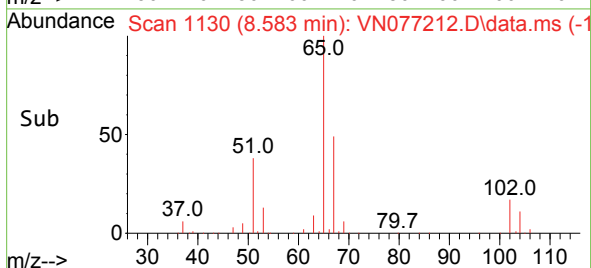
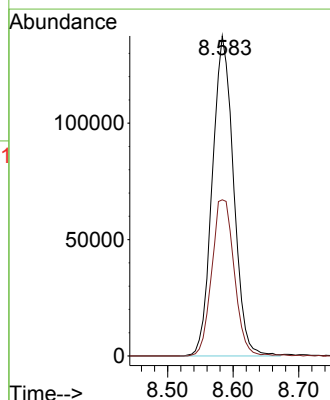
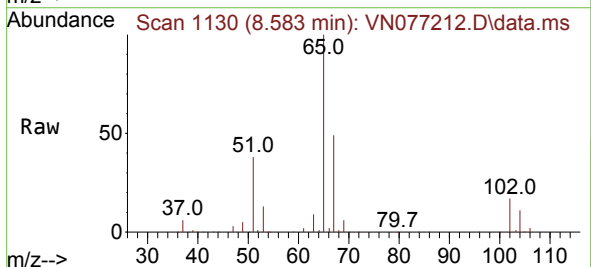
Instrument :
MSVOA_N
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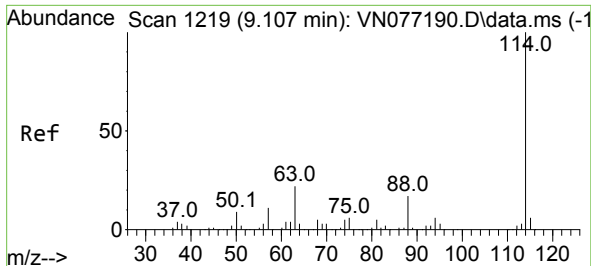
Tgt Ion: 56 Resp: 11355
Ion Ratio Lower Upper
56 100
69 142.3 27.0 40.6#
84 112.5 82.9 124.3



#33
1,2-Dichloroethane-d4
Concen: 49.131 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. -0.001 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

Tgt Ion: 65 Resp: 309266
Ion Ratio Lower Upper
65 100
67 51.8 0.0 107.2

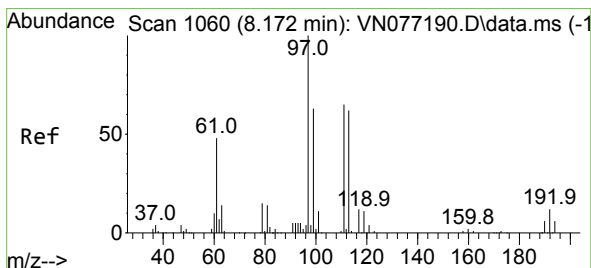
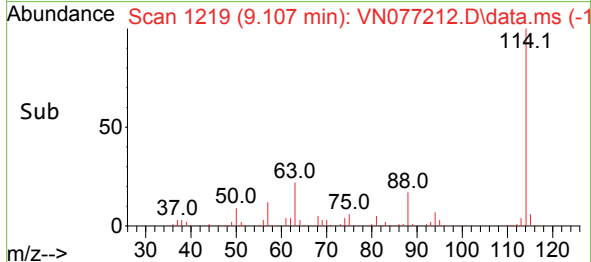
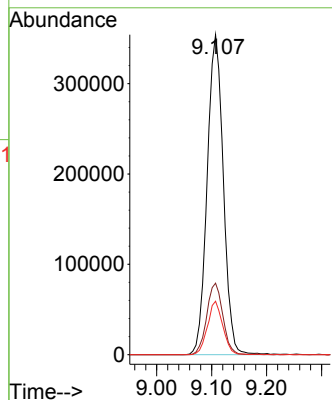
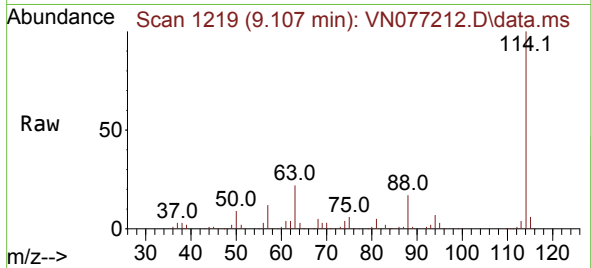




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

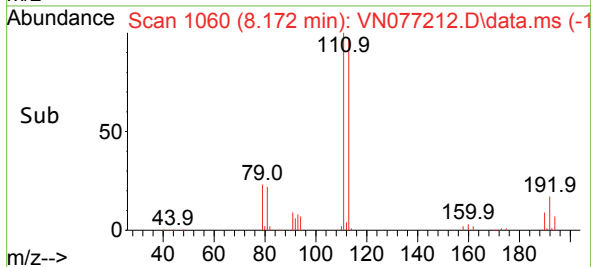
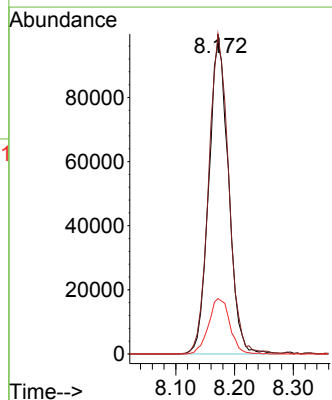
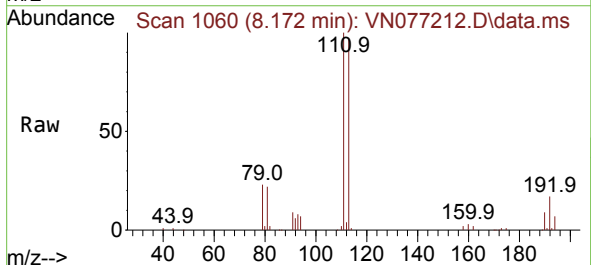
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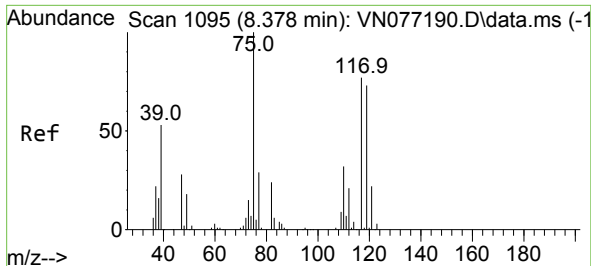
Tgt Ion:114 Resp: 723265
Ion Ratio Lower Upper
114 100
63 22.4 0.0 36.6
88 16.7 0.0 28.6



#35
Dibromofluoromethane
Concen: 46.691 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

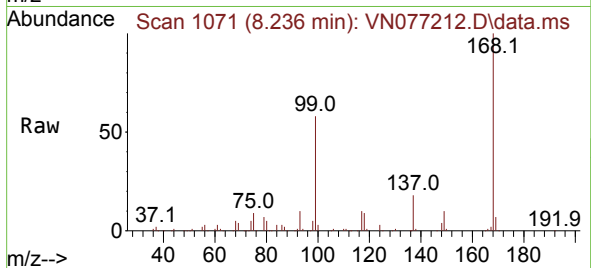
Tgt Ion:113 Resp: 229144
Ion Ratio Lower Upper
113 100
111 103.3 81.8 122.8
192 19.0 13.9 20.9



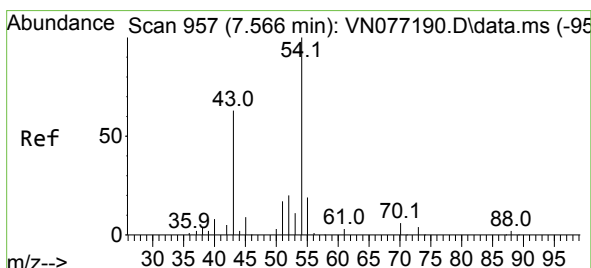
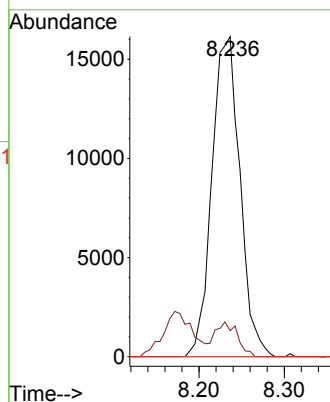
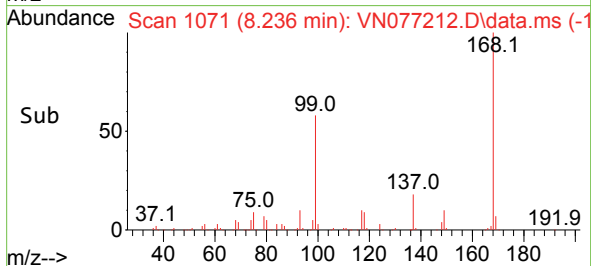


#36
1,1-Dichloropropene
Concen: 5.400 ug/l
RT: 8.236 min Scan# 1095
Delta R.T. -0.142 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#03

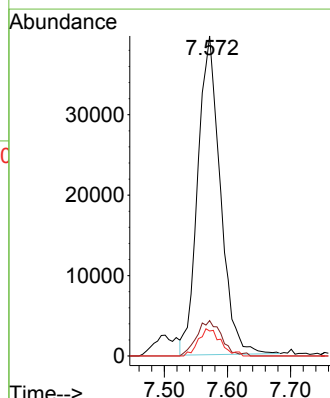
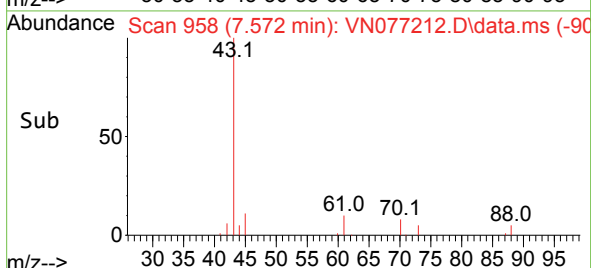
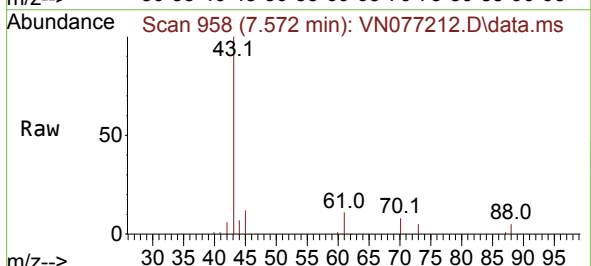


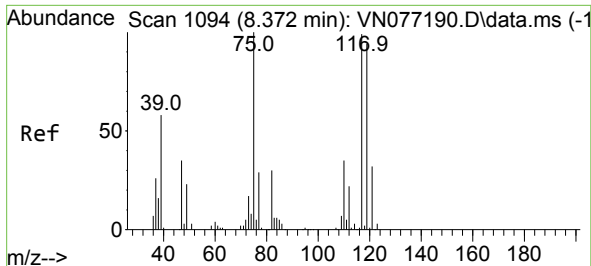
Tgt Ion: 75 Resp: 36882
Ion Ratio Lower Upper
75 100
110 8.9 18.9 56.9#
77 0.0 24.9 37.3#



#37
Ethyl Acetate
Concen: 12.896 ug/l
RT: 7.572 min Scan# 958
Delta R.T. 0.006 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

Tgt Ion: 43 Resp: 98181
Ion Ratio Lower Upper
43 100
61 12.3 13.5 20.3#
70 8.4 11.0 16.6#

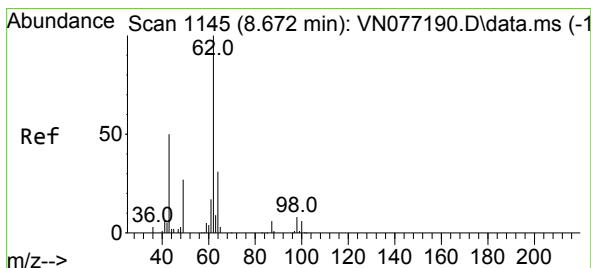
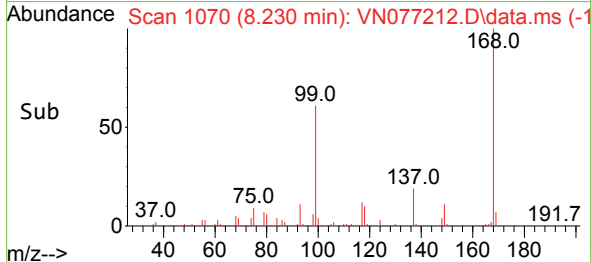
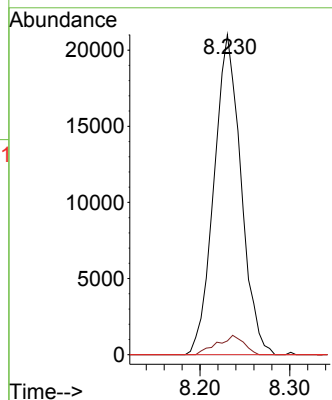
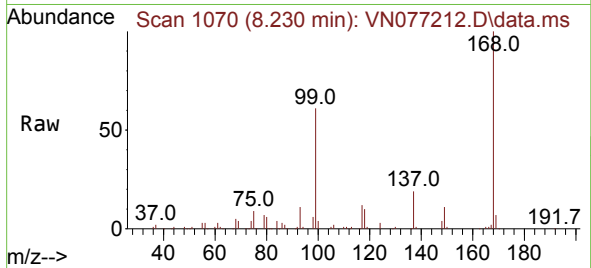




#38
Carbon Tetrachloride
Concen: 6.342 ug/l
RT: 8.230 min Scan# 1107
Delta R.T. -0.142 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

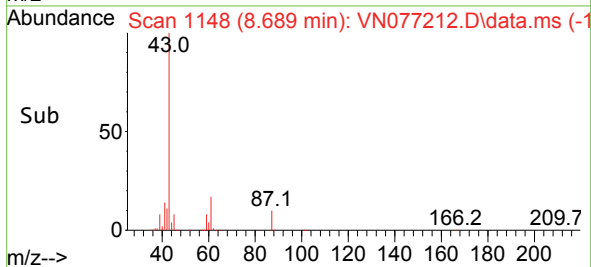
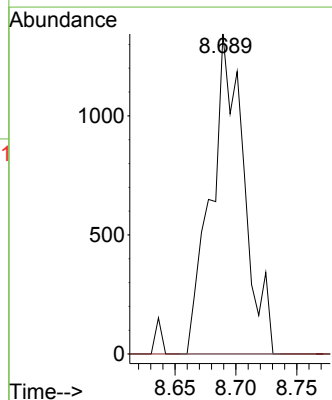
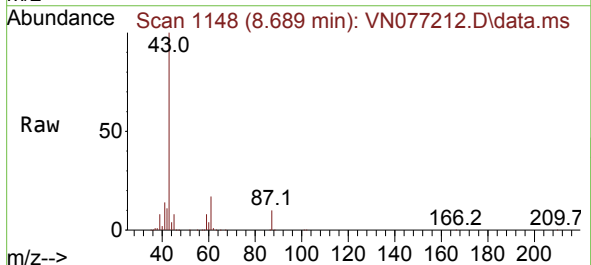
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#03

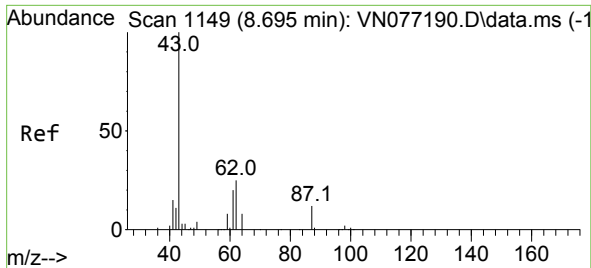
Tgt Ion:117 Resp: 43924
Ion Ratio Lower Upper
117 100
119 4.3 76.9 115.3#
121 0.0 23.2 34.8#



#42
1,2-Dichloroethane
Concen: 0.319 ug/l
RT: 8.689 min Scan# 1148
Delta R.T. 0.017 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

Tgt Ion: 62 Resp: 2518
Ion Ratio Lower Upper
62 100
98 0.0 0.0 21.8

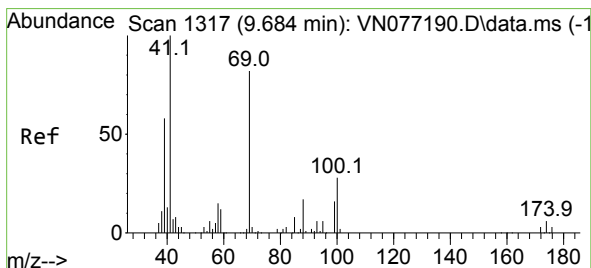
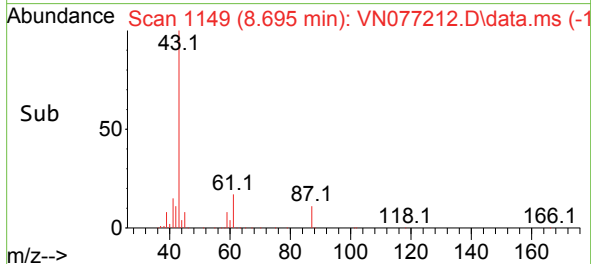
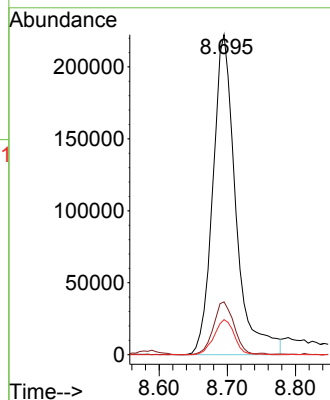
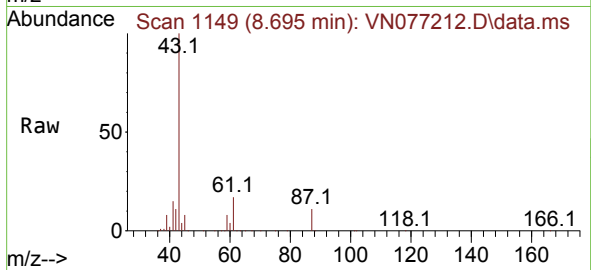




#43
Isopropyl Acetate
Concen: 42.374 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

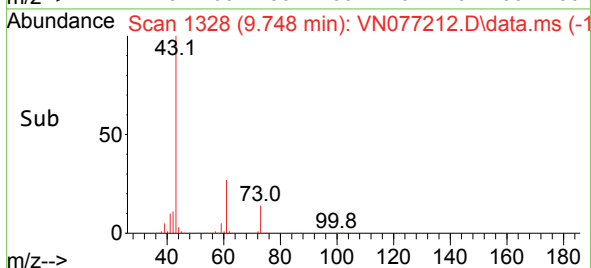
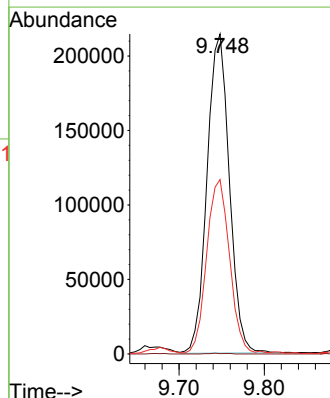
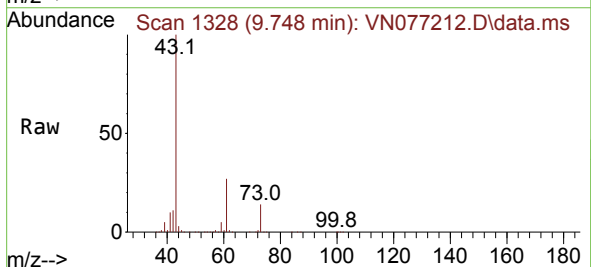
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#03

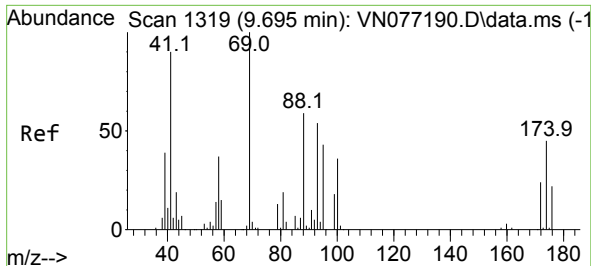
Tgt Ion: 43 Resp: 520465
Ion Ratio Lower Upper
43 100
61 14.9 26.2 39.2#
87 9.7 14.8 22.2#



#48
Methyl methacrylate
Concen: 65.737 ug/l
RT: 9.748 min Scan# 1328
Delta R.T. 0.064 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

Tgt Ion: 41 Resp: 388825
Ion Ratio Lower Upper
41 100
69 0.2 92.6 139.0#
39 55.7 51.4 77.0





#49

1,4-Dioxane

Concen: 0.783 ug/l

RT: 9.660 min Scan# 11

Delta R.T. -0.035 min

Lab File: VN077212.D

Acq: 27 Mar 2023 19:52

Instrument :

MSVOA_N

ClientSampleId :

PB151668ZHE#03

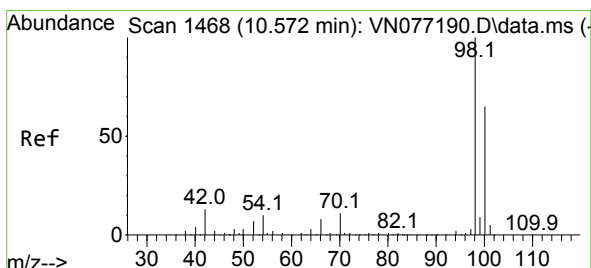
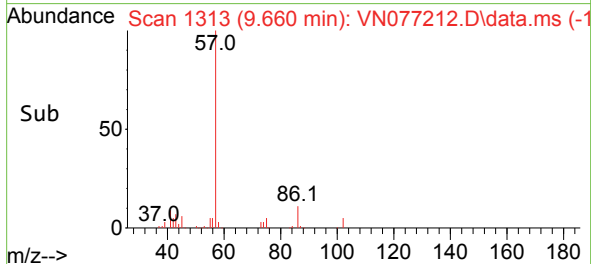
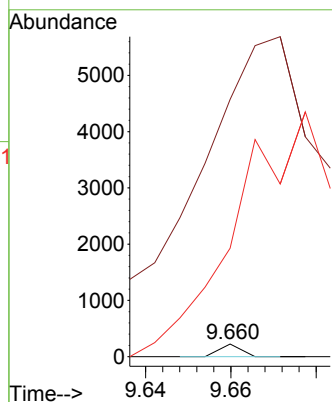
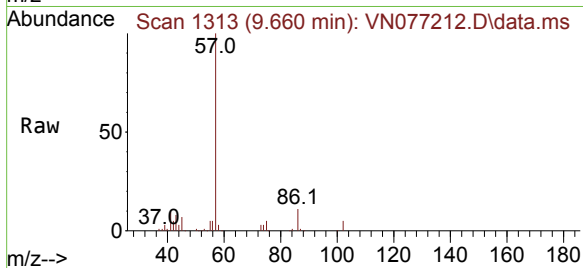
Tgt Ion: 88 Resp: 79

Ion Ratio Lower Upper

88 100

43 0.0 15.3 22.9#

58 10603.8 47.6 71.4#



#50

Toluene-d8

Concen: 50.300 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VN077212.D

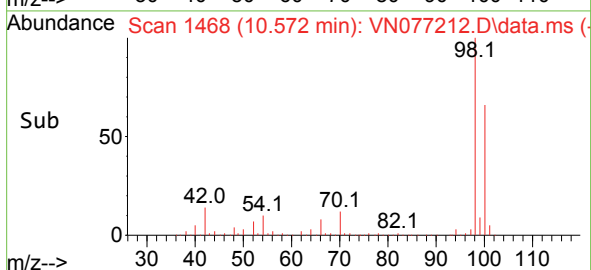
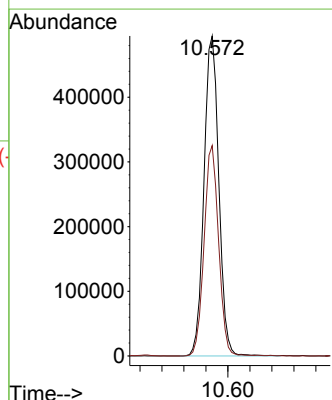
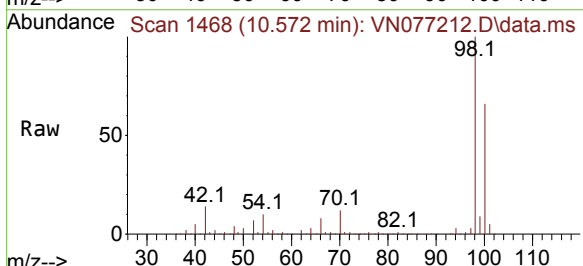
Acq: 27 Mar 2023 19:52

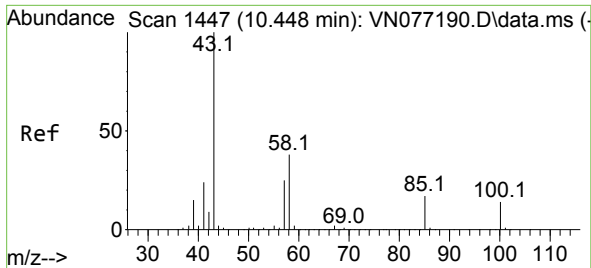
Tgt Ion: 98 Resp: 924978

Ion Ratio Lower Upper

98 100

100 64.5 52.8 79.2

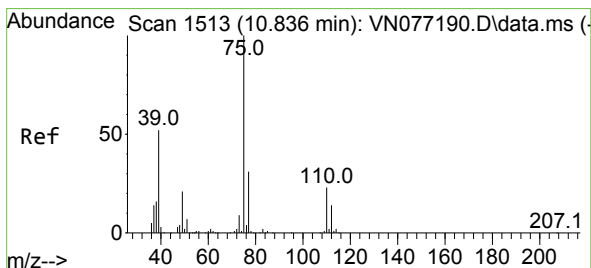
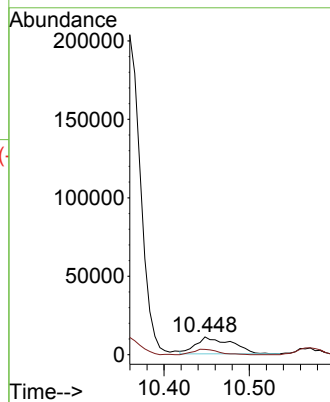
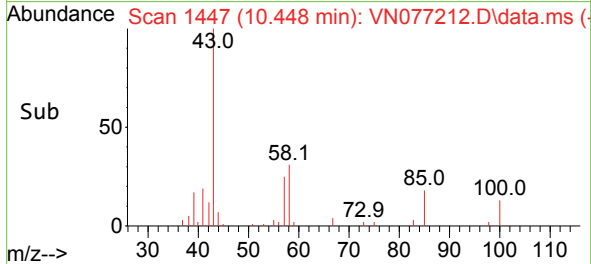
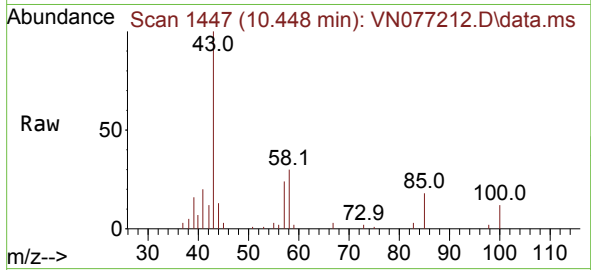




#51
4-Methyl-2-Pentanone
Concen: 4.017 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. -0.000 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

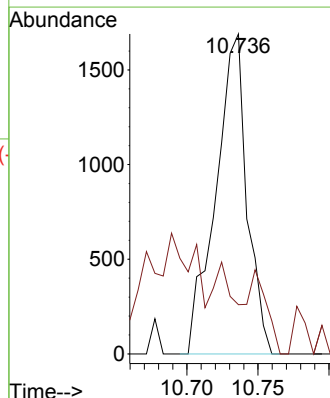
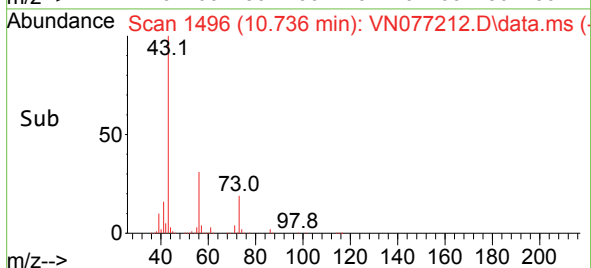
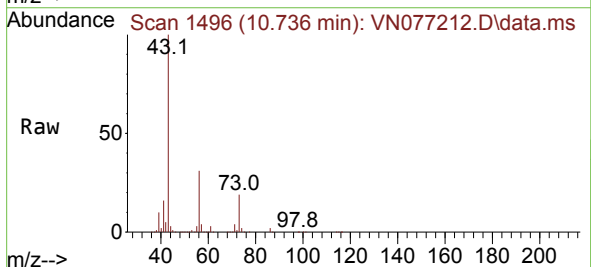
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#03

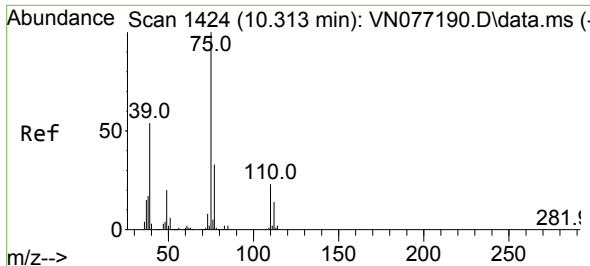
Tgt Ion: 43 Resp: 31042
Ion Ratio Lower Upper
43 100
58 23.1 37.4 56.0#



#53
t-1,3-Dichloropropene
Concen: 0.352 ug/l
RT: 10.736 min Scan# 1496
Delta R.T. -0.100 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

Tgt Ion: 75 Resp: 2588
Ion Ratio Lower Upper
75 100
77 15.4 25.0 37.6#

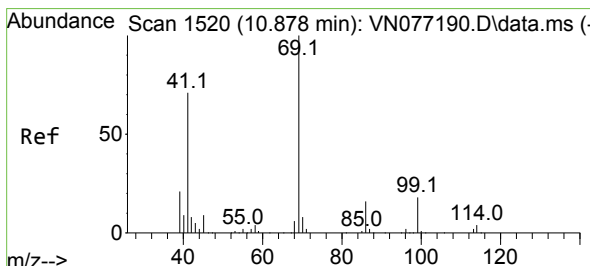
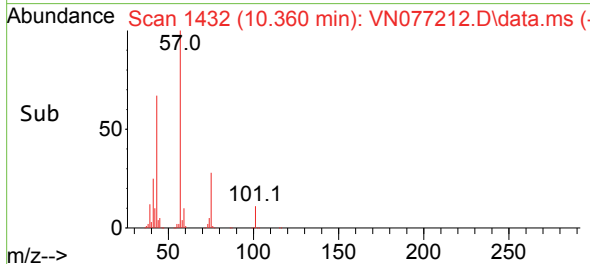
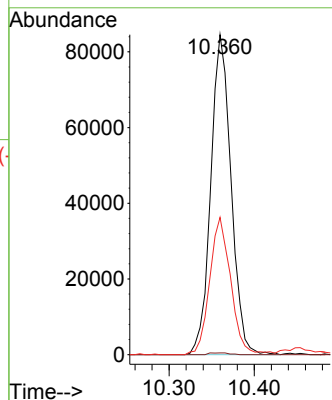
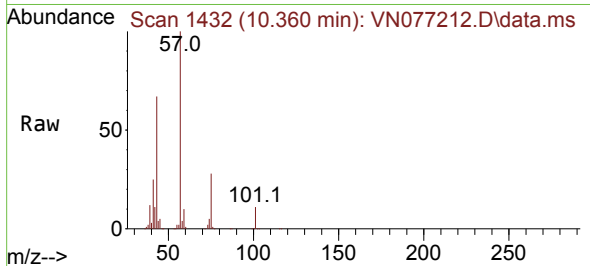




#54
 cis-1,3-Dichloropropene
 Concen: 17.409 ug/l
 RT: 10.360 min Scan# 1424
 Delta R.T. 0.047 min
 Lab File: VN077212.D
 Acq: 27 Mar 2023 19:52

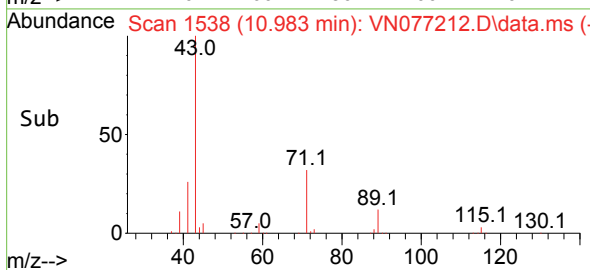
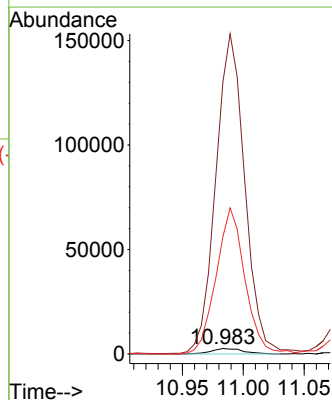
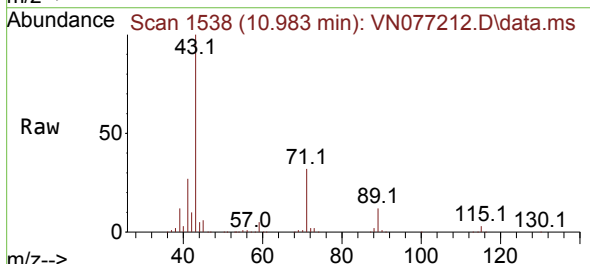
Instrument :
 MSVOA_N
 ClientSampleId :
 PB151668ZHE#03

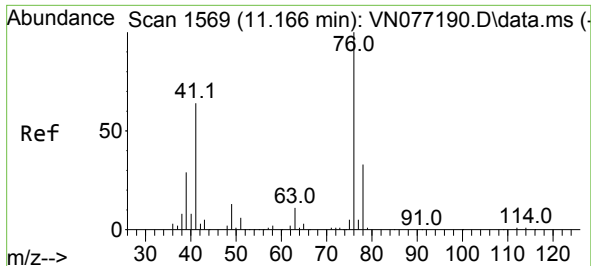
Tgt Ion: 75 Resp: 139912
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.7 38.5#
 39 42.9 29.7 44.5



#56
 Ethyl methacrylate
 Concen: 0.639 ug/l
 RT: 10.983 min Scan# 1538
 Delta R.T. 0.105 min
 Lab File: VN077212.D
 Acq: 27 Mar 2023 19:52

Tgt Ion: 69 Resp: 4731
 Ion Ratio Lower Upper
 69 100
 41 5356.2 38.0 57.0#
 39 2431.8 22.4 33.6#





#57

1,3-Dichloropropane

Concen: 2.097 ug/l

RT: 11.207 min Scan# 1576

Delta R.T. 0.041 min

Lab File: VN077212.D

Acq: 27 Mar 2023 19:52

Instrument :

MSVOA_N

ClientSampleId :

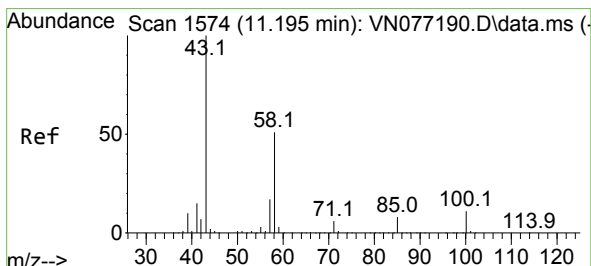
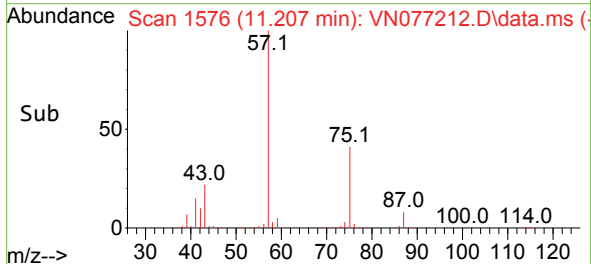
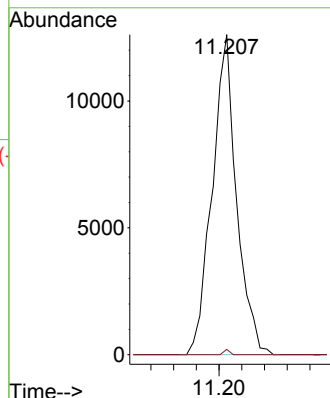
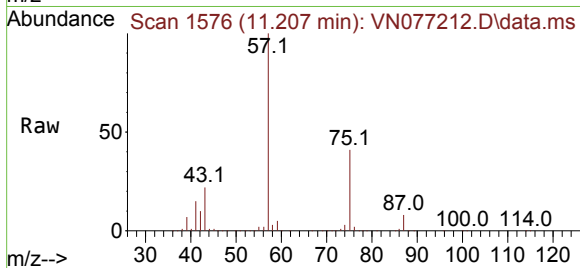
PB151668ZHE#03

Tgt Ion: 76 Resp: 18737

Ion Ratio Lower Upper

76 100

78 0.4 26.1 39.1#



#59

2-Hexanone

Concen: 69.600 ug/l

RT: 11.171 min Scan# 1570

Delta R.T. -0.024 min

Lab File: VN077212.D

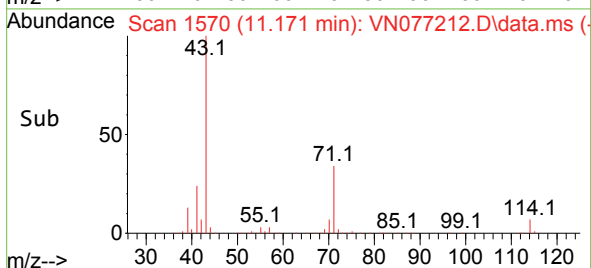
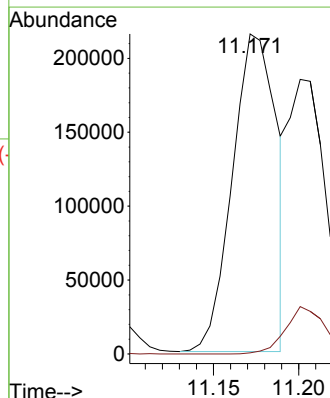
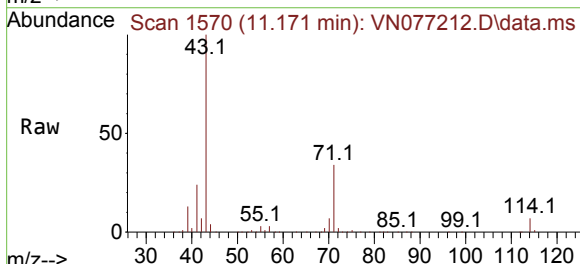
Acq: 27 Mar 2023 19:52

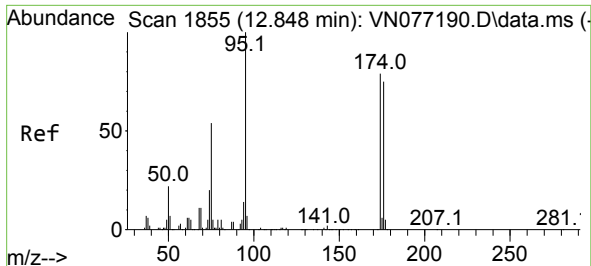
Tgt Ion: 43 Resp: 386568

Ion Ratio Lower Upper

43 100

58 0.0 32.6 98.0#

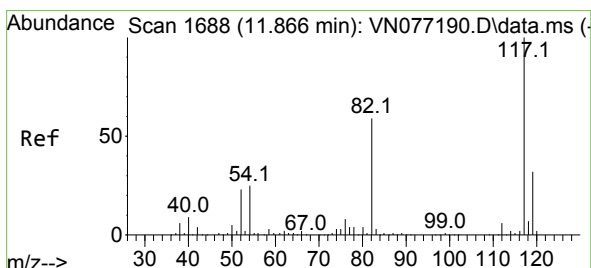
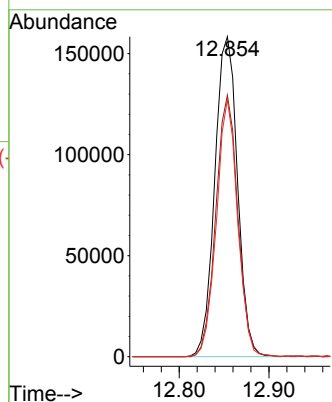
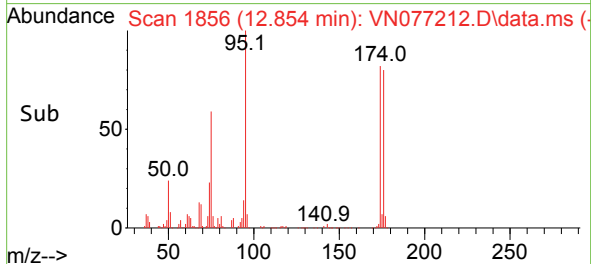
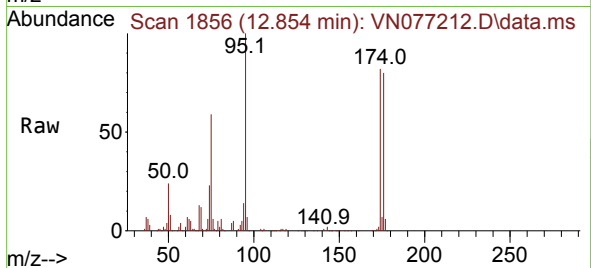




#62
4-Bromofluorobenzene
Concen: 46.119 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

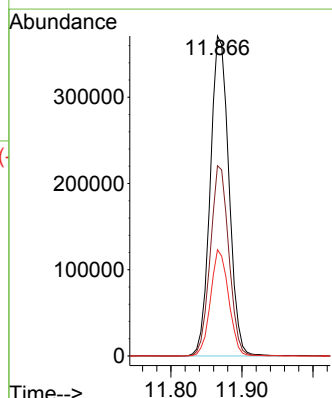
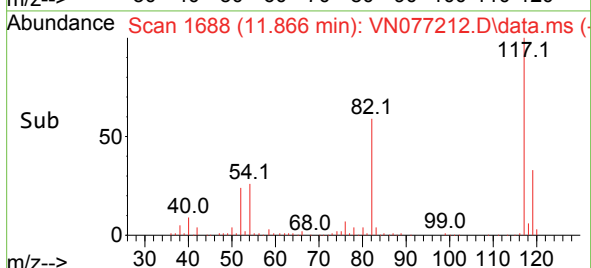
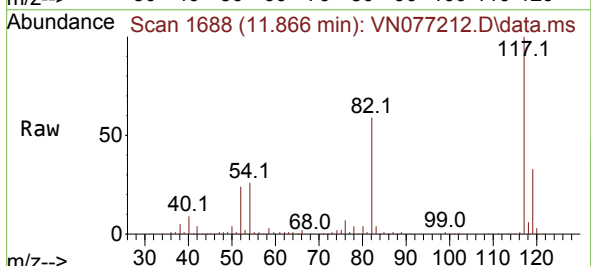
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#03

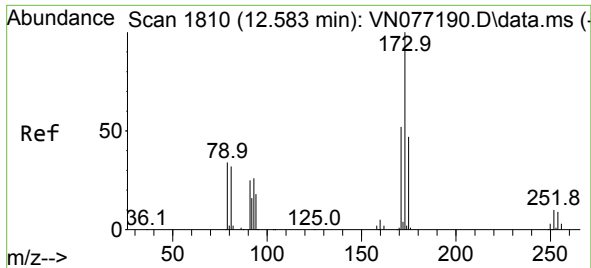
Tgt Ion: 95 Resp: 278342
Ion Ratio Lower Upper
95 100
174 79.3 0.0 162.4
176 75.0 0.0 157.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

Tgt Ion: 117 Resp: 674873
Ion Ratio Lower Upper
117 100
82 59.5 43.5 65.3
119 33.2 25.5 38.3

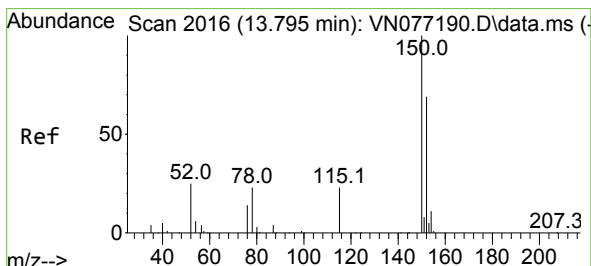
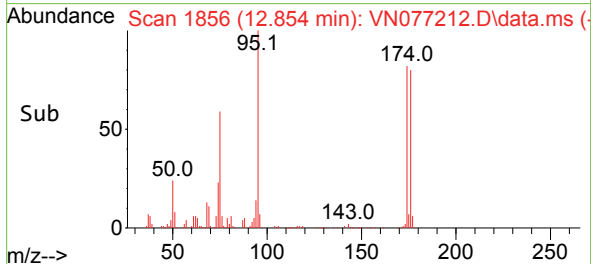
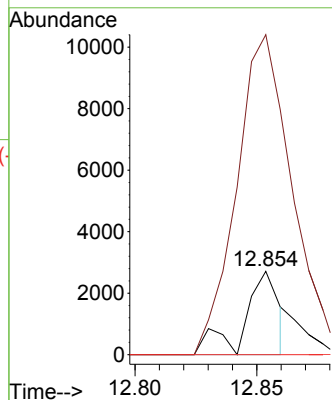
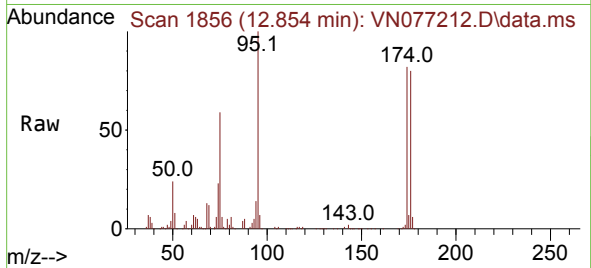




#71
Bromoform
Concen: 0.735 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.271 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

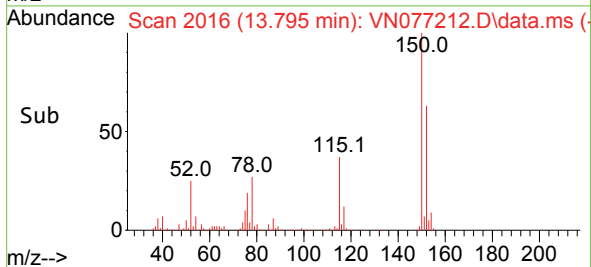
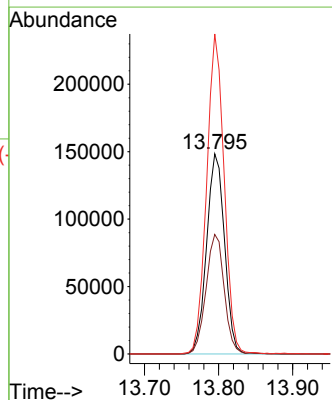
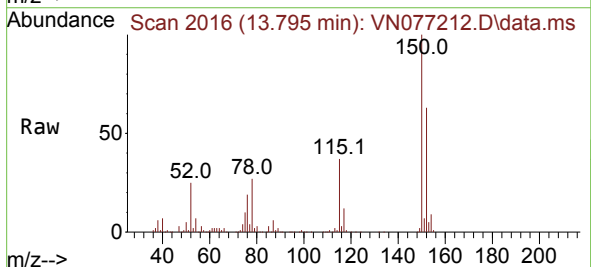
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#03

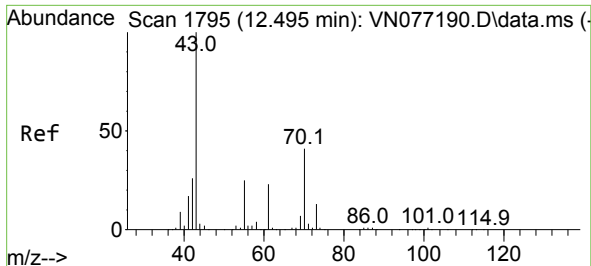
Tgt Ion:173 Resp: 2705
Ion Ratio Lower Upper
173 100
175 485.3 24.9 74.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

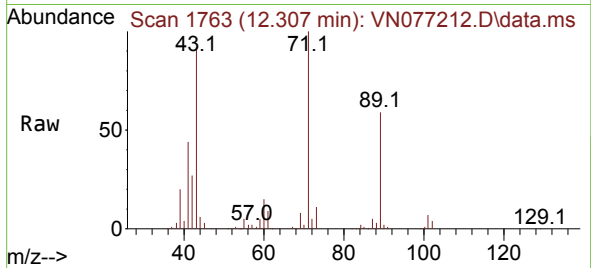
Tgt Ion:152 Resp: 249628
Ion Ratio Lower Upper
152 100
115 60.7 30.3 90.9
150 155.9 0.0 353.6



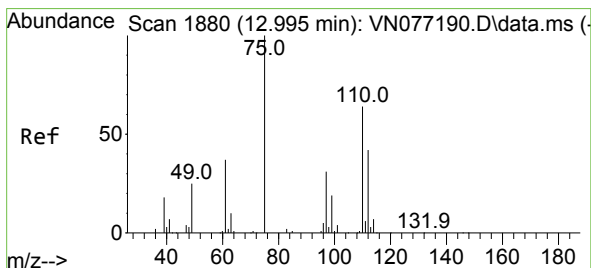
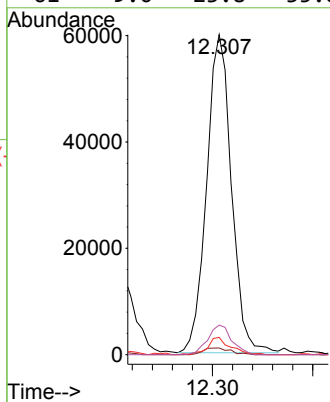
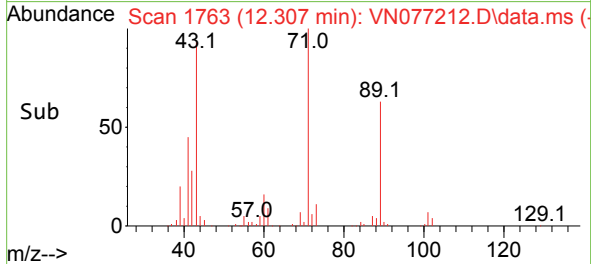


#74
N-amy1 acetate
Concen: 12.013 ug/l
RT: 12.307 min Scan# 1763
Delta R.T. -0.188 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#03

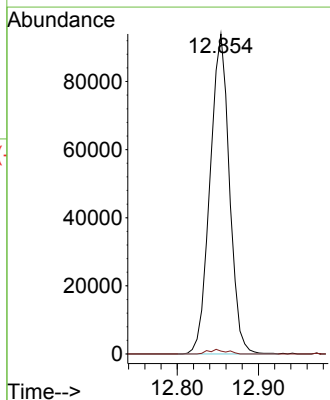
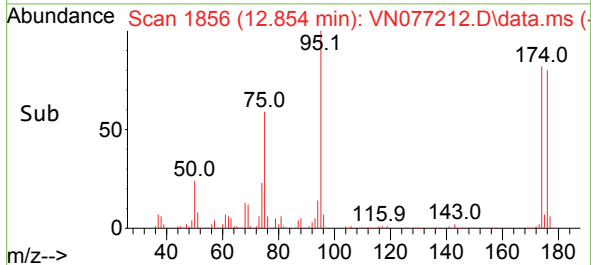
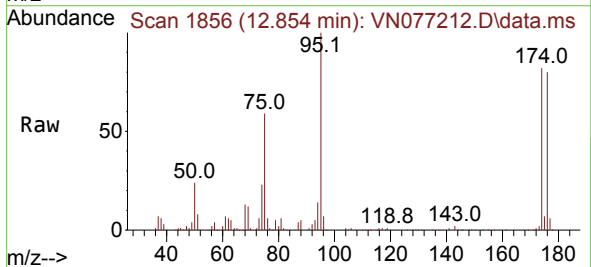


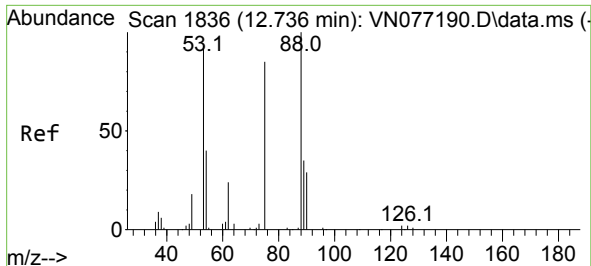
Tgt Ion: 43 Resp: 102813
Ion Ratio Lower Upper
43 100
70 2.3 46.8 70.2#
55 5.0 23.4 35.2#
61 9.0 23.8 35.8#



#76
1,2,3-Trichloropropane
Concen: 30.799 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

Tgt Ion: 75 Resp: 155965
Ion Ratio Lower Upper
75 100
77 1.3 93.8 281.4#

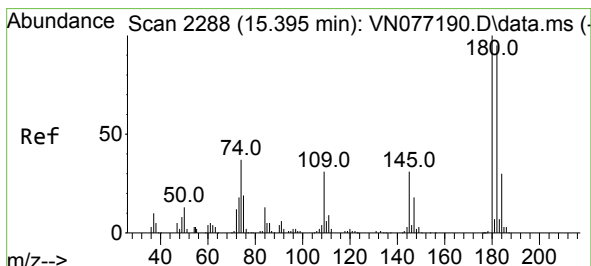
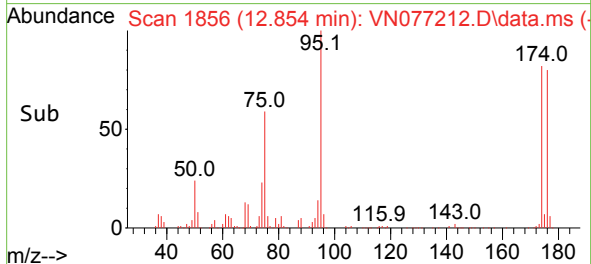
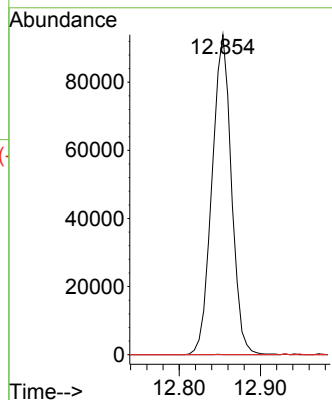
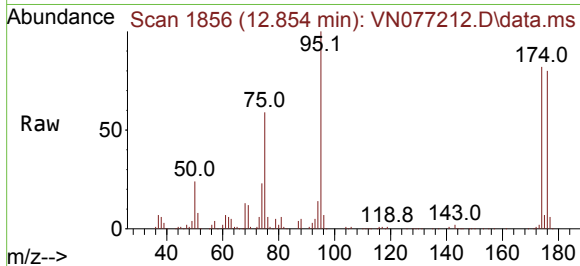




#81
trans-1,4-Dichloro-2-butene
Concen: 88.768 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

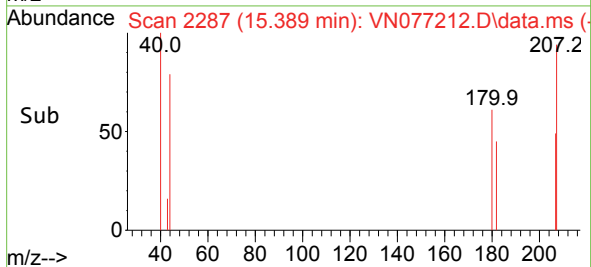
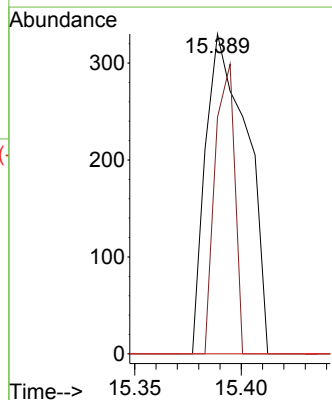
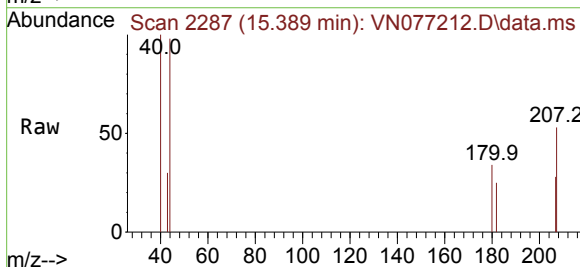
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#03

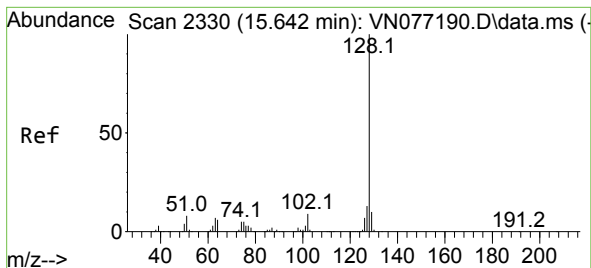
Tgt Ion: 75 Resp: 155965
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.0#
89 0.0 39.5 59.3#



#93
1,2,4-Trichlorobenzene
Concen: 4.478 ug/l
RT: 15.389 min Scan# 2287
Delta R.T. -0.006 min
Lab File: VN077212.D
Acq: 27 Mar 2023 19:52

Tgt Ion:180 Resp: 445
Ion Ratio Lower Upper
180 100
182 43.1 47.4 142.2#
145 0.0 15.8 47.3#





#95

Naphthalene

Concen: 5.938 ug/l

RT: 15.648 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN077212.D

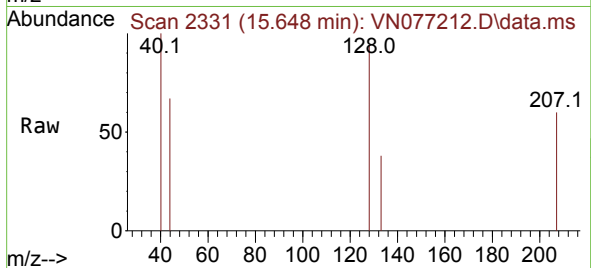
Acq: 27 Mar 2023 19:52

Instrument :

MSVOA_N

ClientSampleId :

PB151668ZHE#03



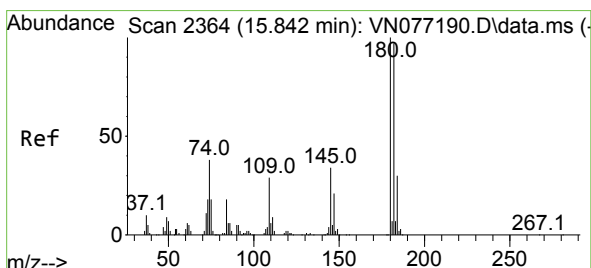
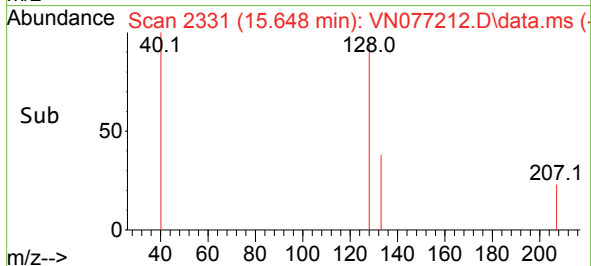
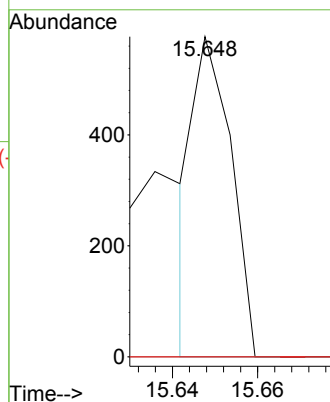
Tgt Ion:128 Resp: 345

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.9 13.3#



#96

1,2,3-Trichlorobenzene

Concen: 4.699 ug/l

RT: 15.859 min Scan# 2367

Delta R.T. 0.017 min

Lab File: VN077212.D

Acq: 27 Mar 2023 19:52

Tgt Ion:180 Resp: 220

Ion Ratio Lower Upper

180 100

182 32.3 47.7 143.1#

145 0.0 17.0 51.0#

